

STATE OF MISSOURI

Mel Carnahan, Governor • David A. Shorr, Director

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL QUALITY

Southwest Regional Office

318 Park Central East. Suite 500 Springfield. MO 65806-2218 (417)895-6950

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Greene County/HzW Litton Industries

RECEIVED

MAR 22 1995

RCOM SECTION

February 15, 1995

CERTIFIED MAIL NUMBER Z 281 819 210 RETURN RECEIPT REQUESTED

LOW # 95-SW.005

Mr. Bob Schutz
Plant President
(Litton Industries
Advanced Circuitry Division
4811 W. Kearney
P.O. Box 2847
Springfield, MO 65801-0847

Dear Mr. Schutz:

On January-24, 1995, a hazardous waste compliance inspection, was conducted at the Litton-Advanced Circuitry Division facility located at 4811 W. Kearney in Springfield, Missouri. The purpose of the inspection was to determine the facilities compliance status with the Missouri Hazardous Waste Management Law and Regulations under authority of Sections 260.375 and 260.377 RSMo.

Enclosed is a copy of the hazardous waste compliance report and Notice of Violation (NOV) number 2966. The NOV is issued for violations of the Missouri Hazardous Waste Management Law and Regulations observed during the January 24, 1995 inspection.

This letter will require Litton-ACD to provide documentation demonstrating a return to compliance in accordance with the following schedule:

R00337395 RCRA RECORDS CENTER

RECYCLED PAPER

RCRA FILE COPY

__Modoo7152903

DOCUMENT #__132

Mr. Bob Schutz, President Litton-ACD February 15, 1995

Within fifteen (15) days of receipt of this report,

- 1. Submit documentation demonstrating that the drums of lead contaminated filters in the hazardous waste storage area have been shipped for disposal or a schedule detailing the anticipated disposal date.
- 2. Documentation demonstrating that overfill prevention devices have been installed on the hazardous waste storage tanks or certification that such devices will be installed with a timeframe for completion.
- 3. Documentation demonstrating that the secondary containment system for the hazardous waste storage tanks has been equipped with a leak detection system capable of detecting releases within 24 hours, or certification that such a system will be installed on the secondary containment system with a timeframe for completion.
- 4. Certification that daily inspections of the aboveground portions of the hazardous waste storage tanks, overfill/spill control equipment and secondary containment will be resumed and properly documented.

By March 17, 1995, submit the following documentation,

- 1. Certification that all liquids will be removed from the secondary containment system within 24 hours or as soon as possible.
- 2. Certification that the Missouri manifest document number will be provided on all manifests.
- 3. Certification that either the weight in pounds or the specific gravity of the hazardous waste sludges will be provided on all manifests.
- 4. Certification that out of state manifests will include all required Missouri information.
- 5. A photocopy of the updated personnel training plan containing a description of the introductory and continuing training that will be given to each employee.

Mr. Bob Schutz, President Litton-ACD February 15, 1995 page 3

The aforementioned documentation must be submitted to the attention of Mark Rader at this office with a copy to Mr. Tom Judge, Chief, Hazardous Waste Enforcement Unit, Hazardous Waste Management Program, Missouri Department of Natural Resources, P.O. Box 176, Jefferson City, Missouri 65102.

The facility must also review in-house procedures to determine if the following recommendations may be implemented; review the handling methods of the waste mercury vapor bulbs to ensure proper accumulation, storage and disposal, review labeling requirements for the hazardous waste storage tanks to ensure ease of identification, update and resubmit contingency plan information as necessary and develop a formal hazardous waste storage area inspection procedure.

You should note that the Missouri Hazardous Waste Management Law Section 260.424 RSMo provides for penalties not to exceed ten thousand dollars (\$10,000) per day for each day, or part thereof, for which the violation occurred and continues to occur. Litton must take immediate steps to address and eliminate the violations noted in this inspection report.

Please direct any questions or comments concerning this letter to Mark Rader of my staff.

Sincerely,

SOUTHWEST REGIONAL OFFICE

R. Bruce Martin Regional Director

RBM: MR

enc.

c: Mr Tom Judge, HWEU, HWMP

MISSOURI HAZARDOUS WASTE MANAGEMENT LAW COMPLIANCE EVALUATION INSPECTION REPORT FEBRUARY 14, 1995

FACILITY:

Litton - Advanced Circuitry Div. EPA ID: MOD007152903 4811 W. Kearney Springfield, MO 65803 (417) 862-0751

MO Generator ID: 01317

PARTICIPANTS:

Department of Natural Resources

Mark Rader Environmental Specialist Southwest Regional Office

Charles L. Kroeger Environmental Specialist Southwest Regional Office

US EPA Region VII

Paul Okerberg Special Agent

Daniel J. Pflaster Special Agent

Litton - ACD

Neil Schaffer Environmental Engineer

Terry Bean Working Group Lead

INTRODUCTION:

A hazardous waste compliance inspection was conducted at the Litton - Advanced Circuitry Division facility on January 24, 1995. The inspection was conducted under the authority of Sections 260.375(9) and 260.377 RSMo for the purpose of determining the compliance status of the facility relating to hazardous waste handling and disposal.

During the opening conference of the inspection, the inspectors provided on overview of the inspection content and explained Litton's right to request that portions of the inspection be held confidential.

Mr. Schaffer provided information regarding the facility's production processes and waste streams processed through the wastewater pretreatment system and/or disposed as hazardous wastes. Following the opening conference Messrs. Schaffer and Bean led the inspectors on a tour of the facility to examine production lines relevant to the generation of hazardous wastes, accumulation and storage areas. Following the tour of the facility, the necessary paperwork was provided for review.

During the closing conference, the inspectors detailed the findings of the inspection and informed Mr. Schaffer that several items of concern would need to be discussed with the Hazardous Waste Management Program prior to final determination. Following that discussion, a formal inspection report would be issued including all violations noted during the inspection.

FACILITY DESCRIPTION:

Litton manufactures printed circuit boards and is a large quantity generator of hazardous wastes. The Springfield facility has approximately 660 employees working three eight hour shifts seven days per week.

The facility receives copper coated laminant as a raw product, sheers the material to size, computer drills the boards, then performs dry film imaging. The boards go through an electroless copper plating procedure to set a specific thickness of copper prior to transfer to an electrolytic copper plating operation for final application. These plating operations involve a series of tanks containing cleaning agents, rinses and oxidizers. The wastewaters from the operations are directly plumbed to one of two pretreatment systems.

After the boards are copper plated, they are solder plated, the film is removed and the excess copper is etched in either an ammonium etchant or a cupric chloride etchant. The waste etchants are plumbed directly to hazardous waste storage tanks.

For those boards requiring gold tipping, the process is performed following the etching. The boards are then solder masked, routed, inspected and prepared for shipment. Wastewaters are directly plumbed to one of two pretreatment systems.

Multi-layered boards go through similar processing but are stacked and laminated prior to routing and fabrication.

The following hazardous wastes are generated during production processes:

Ammonium etchant (D002) is directly pumped to a 6,000 gallon storage tank in the bulk storage area. This waste is generated at a rate of about 4,000 gallons per month and is shipped for regeneration and recovery. 51,800 gallons of the waste ammonium etchant were shipped during the calendar year of 1994.

Cupric chloride etchant (D002) is directly pumped into one of two 4,500 gallon storage tanks located in the bulk tank storage area. This waste is generated as the process tank is continually regenerated. The generation rate of the waste cupric chloride is approximately 5,000 gallons every two months and the waste is shipped for regeneration and recovery. 33,136 gallons of waste cupric chloride etchant were shipped during the calendar year of 1994. The facility representatives indicated that the cupric chloride etchant may be discontinued during the middle of 1995 and replaced with the ammonium etchant solution.

Pretreatment sludges (F006/D008) are generated in the treatment of wastewaters prior to discharge to the Springfield municiple sewerage system. Wastewaters from the board preparation processes are directly plumbed into one of two treatment processes.

The batch treatment process is used to treat the more highly contaminated waste waters (acids and organics). This system consists of six tanks in which treatment chemicals (sodium sulfide and a proprietary compound) are added. After mixing, the sludge is allowed to settle and the water is filtered through one micron filter bags prior to discharge. The sludges are piped to a sludge thickening tank, polymers added, filter pressed, dried, collected in a metal hopper and bagged in cubic yard bags. Due to the possibility of sparking, the metal hopper receives the sludges which are transferred to the bags once a cubic yard of waste is generated. This system was reworked during the summer of 1994 with a change in treatment chemicals allowing for the generation of less sludge. A cubic yard bag of sludge is generated approximately every 12 hours.

The flow through system treats the less highly contaminated wastes. Wastes are plumbed into an initial 10,000 gallon collection tank then to a 17,000 gallon tank for pH adjustment to 9.8. Under gravity flow, the waste is piped to a Lamallae clarifier where solids initially settle, sludges are piped to settling tanks, allowed to thicken prior to going through the filter press and drier. A cubic yard bag of sludge is generated approximately once per day.

581,450 pounds of sludges were generated during the first three quarters of 1994.

Used oils (D098) are generated at the facility in maintenance of equipment such as hydraulic presses, compressors, drills, etc... The oil is generated at a rate of about 1,000 pounds per month and disposed through Southwest Oil Company of Pittsburg, Kansas.

Scrap printed circuit boards, once treated as hazardous, are now treated as a nonhazardous waste and shipped to the Sand Hills Refinery in Pecos, Texas for reclamation.

Waste mercury vapor lights (D009) have been found to fail the TCLP and are disposed as a hazardous waste. The facility generates approximately 100 pounds per month with 170 pounds shipped off site in 1994. The waste lights are accumulated and stored in the hazardous waste storage area.

Other wastes are generated on occasion as warranted. Lead contaminated soils and wood are generated from construction or remodeling projects in the facility. The facility representatives indicated that on all remodeling projects, removed construction materials and soils were routinely tested for contamination. Additional waste streams may originate from off spec products and various other sources. These off spec products may be introduced into the wastewater pretreatment process.

Waste lead contaminated filters from the electrolytic copper plating bath are accumulated and considered a hazardous waste. This waste stream, originally generated in May of 1994, has yet to be shipped off-site as the facility has been awaiting final approval from the disposal facility. Shipment of the waste was requested by Litton in June 1994, a contract was approved in December 1994 with the facility presently waiting for a transporter to schedule a shipment date.

UNSATISFACTORY FEATURES AND RECOMMENDATIONS:

- 1. Storage over 90 days: 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a). The facility has stored the lead contaminated filters since May 12, 1994, far in excess of the 90 day storage limit for large quantity generators. As indicated by Mr. Schaffer, the delay was due to gaining approval for and scheduling a shipment of this new waste stream.
- 2. Failure to have overfill prevention controls in place and operating: 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(1) referencing 40 CFR 265.194(b)(2). The facility operates three above ground tanks for storage of hazardous wastes. The facility personnel indicated that there were no automatic feed cutoffs, alarms or other overfill prevention devices in operation. The facility monitors waste levels daily with a visual inspection and regulates quantities of waste introduced into the tanks through locking valves.
- 3. Failure for the tank storage containment system to be provided with a leak detection system capable of detecting a release within 24 hours: 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(1) referencing 40 CFR 265.193(c)(3). The secondary containment system must be provided with a leak detection system designed and operated so that it will detect the failure of either the primary and secondary containment structure or any release of hazardous waste or accumulated liquid in the secondary containment system within 24 hours, or at the earliest practicable time. The facility's visual inspection of the primary containment system does not provide necessary assurance of leak detection for the secondary containment structure.
- 4. Failure to provide a containment system which is sloped or designed to drain and remove liquids: 10 CSR 25-5.262(2)(C)2.C. referencing 10 CSR 25-5.262(2)(C)2.B.(III)(b). Although the containment system is enclosed and accumulated liquids may be removed with a pump, the floor is not sloped nor is a sump provided to assist in this removal.

- 6. Failure to conduct daily inspections of overfill/spill control equipment, aboveground portions of the tank system, secondary containment and data gathered from monitoring systems: 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(1) referencing 40 CFR 265.195(a). Facility personnel indicated that the last documented inspection of the tank system, other than daily visual capacity monitoring, was conducted on October 1, 1993. A daily inspection program must be developed and implemented covering the tanks, secondary containment structures, overfill/spill control equipment, leak detection/monitoring systems and any or all ancillary systems (all piping connected to the hazardous waste tanks, both incoming and outgoing).
- 7. Failure to maintain an inspection log for the tank systems: 10 CSR 25-5.262(1) incorporating 40 CFR 265.262(a)(1) referencing 40 CFR 265.195(c). The facility's last documented inspection was on October 1, 1993.
- 8. Failure to include the Missouri manifest document number on the manifest: 10 CSR 25-5.262(2)(B)2.A. Although the facility provides the Missouri manifest document number on all Missouri manifests, the number is not provided on manifests from other states. All Missouri required information must be provided on out of state manifests. This number may be provided in the additional information section.
- 9. Failure to designate either the weight in pounds or the specific gravity of the waste on the manifest: 10 CSR 25-5.262(2)(B)2.I. Should the waste be listed or measured in gallons, liters or cubic yards on the manifest, the specific gravity must be included. Since Litton ships the hazardous waste sludge as cubic yards, the facility should either use generator knowledge to determine an approximate shipping weight in pounds or calculate the approximate specific gravity. Adjusted figures, received from the disposal facility, should be utilized in completion of the quarterly summary reports to accurately portray the quantity of waste shipped off-site.
- 10. Failure to ensure that out of state manifests include all required Missouri information: 10 CSR 25-5.262(2)(B)4.A. The facility must ensure that all required Missouri information (Missouri manifest document number) is provided on manifests from other states.

11. Failure to provide a written description of introductory and continuing training that will be given to each position: 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.16(d)(3). The facility did have a brief outline of training, but needs to elaborate and expand on the description.

ADDITIONAL COMMENTS AND RECOMMENDATIONS:

- 1. The facility accumulates and stores the waste mercury vapor lights in the hazardous waste storage area. Most of the bulbs were stored in cardboard boxes, but several bulbs were noted to be stored in a loose manner. Once bulbs are designated as a waste material and removed to the storage area, they must be properly prepared for storage and subject to all storage and labeling requirements.
- 2. The labeling for the hazardous waste storage tanks is felt to be at a minimum. Two of the tank labels were not visible from the viewing location during the inspection and at least one label was indicated to be placed upon a wall as the label would not stick to the tank. The facility should apply some type of labeling or signage to the tanks which would be visible from all viewing locations.
- 3. It was noted that the latest notifications to emergency agencies included in the contingency plan were dated during 1989. Due to the changes in the facility, it would be recommended to update and resubmit copies of the contingency plan to the appropriate emergency agencies.
- 4. Although the facility personnel are in the hazardous waste storage area on a daily basis, there is not a formal inspection procedure for this area. A formal inspection procedure should be developed to document the weekly inspections required by 40 CFR 265.174.
- 5. During the inspection, an accumulation of hydrochloric acid was noted on the floor of the secondary containment system. This acid was generated from a leaking pump for a product tank. The pump was repaired and the acid ran through the pretreatment system for disposal. The facility must ensure that all liquids within the containment system are removed within 24 hours or as soon as possible.

Submitted By:

Approved By:

Environmental Specialist

Charles L. Kroeger Environmental Specialist

NOTICE OF VIOLATION PURSUANT TO REQUIREMENTS OF THE MISSOURI HAZARDOUS WASTE MANAGEMENT LAW, RULES AND REGULATIONS

FACILITY NAME							
LITTON - ADVANCED (TREDITAY	DIVISION	· · · · · · · · · · · · · · · · · · ·				
)			STATE	ZIP CODE			
MISSOURI ID NUMBER	SPRINGE	DATE OF INSPECTION	<u> </u>	05803			
(D) 3, 7		JANUARY 24	ILG E				
During an inspection and/or a review of inf	ormation or docum			mpliance with the			
requirements of the Missouri Hazardous Waste							
10 CSR 25 the following violations were ident							
Missouri Hazardous Waste Regulations.		·					
CITATION		DESCRIPTION OF V	IOLATION				
10 (SE 25 5.262(1) Incorporating 40 (FR 262.34/6)	STURAGE	OVER 90 days	5				
10 CSR CS-S. 26(1) TACOPORE FAR. 40 CFR CAL 34(6X) CETERPRING		have overfill		introis is			
40(FR 265, MY(6)(2)		harardous wast					
10 (5K 25-5 262(1) TACOPOIL +TAG		o provide Sec		i i			
YOKER THE BY (BOY) RefereNETING	19.701.	o blooling 200	Drawy Lo	41 14 11. V 16 32			
OCSRES-5. SURTIMEN POLATING	with a	Irak detech	in System				
UCCFREEZ-BUCKY) Ketchining	Failure"	ic replact de	the inspec	tsens of			
40-(FK (1.5 F15(A)		ol control equip	•				
				٧ .			
	2 Nottog	of track system	Scrondary	CONTRIBUTE			
	•	•					
This information is provided to call your attention to those areas of noncompliance at the earliest possible time. This notice does not constitute a compliance order issued pursuant to Section 260.410, RSMo and may not be a complete listing of all violations which may be identified as a result of this inspection.							
The owner/operator is hereby requested to submit in writing within 15 days of receipt of this notice a description of all corrective actions taken and/or a schedule for completion of necessary corrective actions to be taken to: Chief, Enforcement Section, Waste Management Program, Department of Natural Resources, P.O. Box 176, Jefferson City, MO 65102 with a copy to the Administrator, Regional Office.							
The corrective actions taken within 15 days of this notice will be considered in determining whether enforcement action, including the assessment of civil penalties, should be initiated.							
If you have any questions on this notice or wish to discuss your response, you may call MARK RADER at 117 875-6750 or Charles Krueger at 117 875-6750.							
Signature of Preparer Ack Head	3	W. Janes	Date 2-1-9	5			
Date							
The undersigned person hereby acknowledges that he/she received a copy of this Notice and has read same.							
SIGNATURE		PRINTED NAME	· · · · · · · · · · · · · · · · · · ·	}			
"SENT CERTIFIER WA	٠ • د	•					
TITLE	* *	DATE	· · · · · · · · · · · · · · · · · · ·				
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MISSOURI DEPARTMENT OF LATURAL RESOURCES HAZARDOUS WASTE PROGRAM LARGE QUANTITY GENERATOR INSPECTION RECORD AND CHECKLIST

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LQG-INSP.

NAME		oximately, 5 dru	1115)	
Litton ADVANCED CIRCUITEN DIV	TE	R4 24 1991	EPA I.D. NUMBER	1152903
ADDRESS	ND.	KA CA TIT	MO I.D. NUMBER	
CITY NUMBER OF EMPLOYEES YEA	ARS AT SITE		TELEPHONE NUM	
SP21N6FIEZD 65803 660 F FACILITY REPRESENTATIVE(S), TITLE(S)			(417) 48 67	
FACILITY REPRESENTATIVE(S), TITLE(S)				
Net B. Schaffer LNV. ENGINEER DESCRIPTION OF THE FACILITY'S OPERATIONS AND PLANT.				
Manufacture printed circuit bo	xid	^		
strains boards dutting dry Al	lm Tr	nag ng		
electroless copper plating elec	troly	Hic cop	per plat	- 3xi
solder plating, etch exces	<u>es co</u>	pper	1.	
gold plating solder mask	Ros	ite ins	pect s	k.
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WASTE STREAMS				
DESCRIBE EACH WASTE STREAM GENERATED INCLUDING THE PRODUCTION PROCESS	1	GENERATION RATE	EPA ID NUMBER	DISPOSITION
			MOMBELL	
Ammonton etchant	t	10008/	JW3	Philbroteel
Ammonton etchant	t	1,000 gy mont	JW3	Ph. Ibustee
1.		Sime 1	Doos	
		1,000 ey mort 5,000 f/3 mo	h Dooz	Philbrotee
1. Cupric Chloride Etchant 2.		Sime 1	Doos	Ph-1 bu To
1. Cupric Chloride Etchant 2.		Sime 1	L DOOZ	Ph-1 bu To
1.		Sime 1	h Dooz	
1. Cupric Chloride Etchant 2. pretreatment Sudges 3.		5p008/3m	Ly Doos Foot-	Philbro To
1. Cupric Chloride Etchant 2. pretreatment Sudges 3.		Sime 1	L DOOZ	Ph-1 bu To
1. 2. Cupric Chloride Etchant 2. 3. Pretreatment Sudges 3. Used 071		5poos/3mo	Ly Doos Foot-	Philbuito Cyprus Cyprus Swest
1. Cupric Chloride Etchant 2. Pretreatment Sudges 3. Used oil Mercury Vapor lights	A	5poos/3mo	Ly Doos Foot-	Philbuito Cyprus Swest Suest
1. Cupric Chloride Etchant 2. Pretreatment Sudges 3. Used 071	A	5poos/3mo	DOOZ FOUG- DOOS DOOS	Philbuito Cyprus Cyprus Swest
1. Cupric Chloride Etchant 2. Pretreatment Sudges 3. Used oil Mercury Vapor lights 5. Plus other occass CHECK ALL THAT APPLY (Specify if possible)	onal	5poos/3mo	DOOZ FOUG- DOOS DOOS	Philbuito Cyprus Swest Suest
Cupric Chloride Etchant 2. Detreatment Sudges 3. Used oil Mercury Vapor lights 5. CHECK ALL THAT APPLY (Specify if possible) NPDES Permit Lead/Acid Baiteries	POTW_	5poos/3mo	DOOZ FOUG- DOOS DOOS	Philbuito Cyprus Swest Suest
1. Cupric Chloride Etchant 2. Pretreatment Sudges 3. Used oil Mercury Vapor lights 5. CHECK ALL THAT APPLY (Specify if possible) NPDES Permit Lead/Acid Batteries	POTW_ Solid Was	5,000 pds 1,000 pds month	DOOR DOOR DOOR DOOR DOOR	Philbuito Cyprus Swest Suest

A. GENERAL		
1. Registered as a HW Generator - Section 260.380.1 (1) RSMo and 10 CSR 25-5.262 (2)(A)	ddin	COMMENTS
2. Facility determines if waste is hazardous - 10 CSR 25-5.262(1) incorporating 40 CFR 262.11	GGR	
3. Utilizes a licensed hazardous waste transporter - Section 260.380.1	GGR	
4 Utifizes authorized HW TSD or RR facility - Section 260.380.1(7) RSMo	GGR	
Facility does not operate as a TSD - Section 260.390(1) RSMo	GGR	
PART 1: WALK-THROU	GH IN	SPECTION
B. PRETRANSPORT, CONTAINERIZATION & STORAGE		
1. Storage does not exceed 90 days or 180/270 days if facility generates < 1000 Kg/month - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)	GPT	keddums comments
2. Containers in good condition - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(1) referencing 40 CFR 265.171	GPT	29 cubic yand bags
Waste compatible with container - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(1) referencing 40 CFR 265.172	GPT	
4. Containers closed in storage - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(1) referencing 40 CFR 265.173(a)	GPT	Altas from solder
Containers storing incompatible waste separated or protected from each other by a dike, berm or wall - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(1) referencing 40 CFR 265.177(c)	GPT	bath- Ronsed chamed
6. McContainer storage areas have a containment system if holding more than 1000 Kg of liquid hazardous waste - 10 CSR 25-5.262 (2)(C)2.B.(I)	GOR	no free Itguido
Base of containment system is imprevious and free of cracks or gaps - 10 CSR 25-5.262 (2)(C)2.B.(III)(a).	GOR	FATI TCLP
8. Containers protected from contact with accumulated liquids - 10 CSR 25-5.262(2)(C)2.B.(III)(b).	GOR	Rollins Env
9. Capacity of containment system = 10% of waste volume or volume of largest container, whichever is greater - 10 CSR 25-5.262(2)(C)2.B.(III)(c).	GOR	generate IX per month
10. Aun-on onto the containment system is prevented or excess capacity is provided - 10 CSR 25-5.262(2)(C)2.B.(III)(d).	GOR	change out Alters
Accumulated liquids removed to prevent overflow of containment - 10 CSR 25-5.262(2)(C)2.B.(III)(e).	GOR	burns back to storage
2 Containers of ignitable or reactive waste stored >50 ft. from property line (or meet requirements) - 10 CSR 25-5.262(2)(C)5. referencing 40 CFR 265.176 as amended by 10 CSR 25-7.265(2)(I)7.and 8.	GPT	50 mint Me facts to the
13. Containers clearly marked "hazardous waste" - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(3)	GPT	10 24 July 34 Shipment
Waste packaged/labeled/marked per DOT during entire on-site storage period - 10 CSR 25-5.262(2)(C)1.	GØA	1 12 94 SNIP
Date of accumulation marked on containers - 10 CSR 25-5.262(1) Uncorporating 40 CFR 262.34(a)(2)	GPT	www.schedule tapped bas not dated while mapaching
Facility inspected and maintained (weekly) - 10 CSR 25-5262(2)(C)2.A.(I) and (II) referencing 40 CFR 265.174	GPT.	
Daily inspection of areas subject to spills, i.e., waste handling areas - 10 CSR 25-5.262(2)(C)2.A.(II)	GOR_	In strage onea daily due to addition of couste
Adequate aisle space is available - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.35	GPT	Recommend formal
9 Placards available for transporter - 10 CSR 25-5.262(1) incorporating 40 CFR 262.33	GPT	mspection procedure
No Smoking" signs conspicuously placed by ignitable or reactive wastes - 10 CSR 25-5.262(2)(C)2.D(II)	GOR	to document !
Waste oil containers in good condition, labeled and closed - 10 CSR 25-11.010(3)(C)	GOR	
C. SATELLITE ACCUMULATION		
1. Containers kept closed - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(1)(i) referencing 40 CFR 265.173(a)	GPT	TA accumulation
	لـــــــــــــــــــــــــــــــــــــ	100 BAGE 2 OF

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2. Containers in good conditi		scorporating 40	GPT	COMMENTS	
3 Waste compatible with con 40 CFR 262.34(c)(1)(i) refer	tainer - 10 CSR 25-5.262(1) incorporating	GPT	Cubiz yand but DODTI bulbs date 9-27-94	
4. Quantities accumulated no hazardous wastes) - 40 CFR 262.34(c)(1)			GPT	Yz Azil	
5. Satellite containers go to 25-5.262(1) incorporating 4		illing - 10 CSR	GPT		
6. Container marked identifyin 5.262(2)(C)3.	ng contents & beginning da	te - 10 CSR 25-	GOR		
7 Stored in satellite areas less	than 1 year - 10 CSR 25-5.	262(2)(C)3.	GOR		
D. PRZPAREDNESS AND PRI	EVENTION AND EMERG	ENCY PROCE	DUR		•
Facility operated and main emergency - 10 CSR 25-5. referencing 40 CFR 265.31	ntained to minimize the po 262(1) incorporating 40 Cf	ossibility of an FR 262.34(a)(4)	GPT	COMMENTS	
2. Adequate and proper sp equipment available (fire bla	inkets, respirators, SCBA, al		GPT	Sound showeds browns have 5 pane studge area	•
- 10 CSR 25-5.262 (2)(C)2.E				The Colonial Colonia Colonial Colonial Colonial	
3. Adequate water supply and incorporating 40 CFR 262.3	4(a)(4) referencing 40 CFR	265.32(c) & (d)	GPT	city of Spfel	
4. Device in the hazardous wa emergency assistance 40 CFR 262.34(a)(4) referen	- 10 CSR 25-5.262(1)		GPT	2 way kadros on fersonnes	
5. Telephone or two-way radi fire or police departmen 40 CFR 262.34(a)(4) referen	t - 10 CSR 25-5.262(1)		GPT	911	
6. Communication and emerge 10 CSR 25-5.262(1) incorporate CFR 265.33			GPT		·
E. LQG TANKS					
TANK DESIGNATION	CONTENTS	CAPACI	TY	CONTAINMENT	AGE
1. AMMORIVA	ammontum	6000.	<u>_</u>	Ezoty 100% layest tank	18+
2. Cupter	Cupric	4500	8		18+
3. Copite	Cupric	4500) <u>z</u> .	V	14+
4.		• .	. —		
5.		·	,		
1. Spill prevention controls in discount couplings - 16 262.34(a)(1) referencing 40 2. Service of the service o	CSR 25-5.262(1) incorpor CFR 265.194(b)(1) R-the-11115 pect 3 s in place and operating off, etc 10 CSR 25-5.262(1	e.g. high level	CDT	no automatic cutoffs ala	1145
40 CFR 262.34(a)(1) reference 3 Sufficient freeboard in und CSR 25-5.262(1) incorpor 40 CFR 265.194(b)(3)	overed tanks to prevent or	have 10 have vertopping - 10	-	when over soud on co total order truck - ?	Sowia
4. Waste or treatment method incorporating 40 CFR 262.3	· · · · · · · · · · · · · · · · · · ·		GPT	Kewing -	
5. Compatible wastes not p incorporating 40 CFR 262.3	4(a)(1) referencing 40 CFR	265.199(a)	GPT	Call when gets to 4	. 6 00
6 Highitable or reactive wastes ignition or reaction - 10 262.34(a)(1) referencing 40	CSR 25-5.262(1) incorpo	rom sources of rating 40 CFR	GPT	and the second of the second o	ή i>
1 ===:0:(=/(:/::::::::::::::::::::::::::::	CFR 265.198(a)(1) and (2)		1		$\sim c \perp A_{\odot}$
Ignitable or reactive wastes buffer zone requirements - 262.34(a)(1) referencing 40	treated/stored in accordan 10 CSR 25-5.262(1) incorp	ice with NFPA's orating 40 CFR	GPT	past due to storage l	n:tzt7

_				
,[ph.	Velatiles with vapor pressure > 78 mm @ 25° C not placed in open tanks - 10 CSR 25-5.262(2)(C)2.D.(I)	GOR	COMMENTS Single willed tanks
		Wastes and residues removed as hazardous waste and tank and equipment decontaminated upon closure - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(1) referencing 40 CFR 265.197(a)		31 Ngc 3000
	10.	Secondary containment system provided for tanks and equipment; installed after July 14, 1986; storing dioxin waste; over 15 years old; of unknown age in facility over 15 years old; repaired, replaced or reinstalled after July 14, 1986 - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(1) referencing 40 CFR 265.193(a)	GPT	
	11. 2	Secondary containment system constructed of or lined with impervious waste compatible material - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(1) referencing 40 CFR 265.193(c)(1)	GPT	Epoxy Resin Coasted under tanks and on walls
	12. 🔀	Containment system supported by base capable of preventing failure due to settlement, compression or uplift - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(1) referencing 40 CFR 265.193(c)(2)	{	They say THS OK
	18.	contamment system provided with a leak detection system capable of detecting a release within 24 hours - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(1) referencing 40 CFR 265.193(c)(3)	GPT	only visual product tank leaking
	14.	of detecting a release within 24 hours - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(1) referencing 40 CFR 265.193(c)(3) Containment system sloped or designed to drain and remove liquids - 10 CSR 25-5.262(2)(C)2.C. referencing 10 CSR 25-5.262(2)(C)2.B. (III)(b) Containment system capable of containing 100% of the capacity of the largest tank - 10 CSR 25-5.262(2)(C)2.C. referencing 10 CSR	GOR	No slope or no sump }
	1 5. 2	Containment system capable of containing 100% of the capacity of the largest tank - 10 CSR 25-5.262(2)(C)2.C. referencing 10 CSR 25-5.262(2)(C)2.B.(III)(c)	GOR	nothing outside on under containment system to detect leaks
	16	Containment system free of cracks or gaps - 10 CSR 25-5.262(2)(C)2.C. referencing 10 CSR 25-5.262(2)(C)2.B. (III)(a) DID NOT SEE	GOR	
ا	- V7.	Run-on onto containment system prevented or excess capacity is provided - 10 CSR 25-5.262(2)(C)2.C. referencing 10 CSR 25-5.262(2)(C)2.B.(III)(d)	GOR	covenced
Y	6 XF	Spilled or leaked waste and precipitation removed from secondary containment within 24 hours or as soon as possible - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(1) referencing 40 CFR 265.193(c)(4) Tanks are clearly labeled or marked "Hazardous Waste" 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(3) Recommend advantage of the process of overfill/spill control equipment, aboveground portions of tank system, secondary containment, and data gathered from monitoring equipment - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(1) referencing 40 CFR 265.195(a)	GPT	check levels everyday Reversel would spot beeks were formed
	19.	Tanks are clearly labeled or marked "Hazardous Waste" \$ 10 CSR 25-5:262(1) incorporating 40 CFR 262.34(a)(3) Recommend and of the	GP/T	WFPA 704 Spent with
	20.	Daily inspections of overfill/spill control equipment, aboveground portions of tank system, secondary containment, and data gathered from monitoring equipment - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(1) referencing 40 CFR 265.195(a)	GPT	leak from pump-replaced acrid through system last mspectron
	21.	Inspection log maintained - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(1) referencing 40 CFR 265.195(c)	GPT	, sections
	²² 	Cathodic protection systems inspected annually, impressed current sources every two months - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(1) referencing 40 CFR 265.195(b)		last mo
	23.7	Petailed written assessment by an independent, qualified, professional engineer for tanks installed after July 14, 1986, prepared and on-site-10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(1) referencing 40 CFR 265.192		Sort 1,
	24.	Written assessment by an independent, qualified, professional engineer prepared and on-site for tanks lacking secondary containment - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(1) referencing 40 CFR 265.191	GPT	
	25:\\\	Leak test, internal inspection or tank integrity exam performed annually and documented, by an independent, qualified, professional engineer for tanks lacking secondary containment - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(1) referencing 40 CFR 265.193(i)		
	26	Leak/spill response resulted in: waste flow stopped immediately; waste removal; containment and removal of visible releases to the	GPT	
	2	environment; notification and report; and repair or closure - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(1) referencing 40 CFR 265.196	1	LOG PAGE 4 OF

PART 2: RECORDS INSPECTION

F. MANIFESTS		
		COMMENTS
1. Facility uses manifest system - 260.380.1.(6) RSMo, and 10 CSR 25-5.262(2)(B)	GMR	COMMENTS
Records maintained for a 3-year period - 10 CSR 25-5.262(1) incorporating 40 CFR 262.40(a)	GRR	
3. Senerator's MO & EPA I.D. Numbers - 10 CSR 25-5.262(2)(B)	GOR	Lu 1 21 Polant
Manifest document. LD and consecutive shipment numbers - 10 CSR 25 5.262(2)(B)2.A.	GOR	KH Sard Not too Mood
5. Generator's name, address and phone number - 10 CSR 25-5.862(2)(B)2.	GMR	KH sard not to Rhort Check on and put on mspection Report
Atl transporters' names, phone numbers, MO & EPA I.D.#'s, license plate # - 10 CSR 25-5.262(2)(B)2.	EMR	
7. Designated facility name, address, phone, MO & EPA I.D. #, - 10 CSR 25-5.262(2)(B)2.	GMR	
8 DOT shipping name, Hazard Class and waste I.D. # (RQ - if required) - 10 CSR 25-5.262(2)(B)2.		a
eontainers, quantity and specific gravity designated - 10 CSR 25-5.262(2)(B)2.	GMR	assume 1.55s
0. Manifest signed and dated - 10 CSR 25-5.262(2)(B)2.	GMR	
Out of state manifests have all required MO information - 10 CSR 25-5.262(2)(B)4.A.	GOR	
2. Manifest continuation sheets are not used - 10 CSR 25-5.262(2)(B)1.	GOR	O'L CONTEN
Manifest returned within 35 days - or exception report submitted within 45 days - 10 CSR 25-5.262(2)(D)2.C.	GRR	have logon Returned marifoo
Summary Manifest Reports and manifest copies sent to DNR quarterly - 10 CSR 25-5.262(2)(D)1.	GOR	
G. LAND DISPOSAL RESTRICTIONS		
1. Tests waste or uses knowledge of waste to determine if the waste is restricted from land disposal - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(a)	GLB	COMMENTS
Dilution of waste to meet LDR treatment standards is not occurring - 10 CSR 25-7.268(1) incorporating 40 CFR 268.3(a)	GLB	
3. Land-Ban" notification/certification, sent with manifests and retained on-site forfive years - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(a)	1131.0	
4. Notification/certification includes correct EPA Hazardous Waste		
number, corresponding treatment standards, manifest number, and	GLB	
number, corresponding treatment standards, manifest number, and waste analysis data - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(a)	GLB	
number, corresponding treatment standards, manifest number, and waste analysis data - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(a)	GLB	
number, corresponding treatment standards, manifest number, and waste analysis data - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(a) 5. Waste analysis plan on-site and utilized if generator treats hazardous waste in tanks or containers to meet LDR treatment standards - 10	GLB	
number, corresponding treatment standards, manifest number, and waste analysis data - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(a) 5. Waste analysis plan on-site and utilized if generator treats hazardous waste in tanks or containers to meet LDR treatment standards - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(a)(4) 1. PERSONNEL TRAINING 1. Personnel are trained to respond to emergencies including the use of alarm systems, emergency equipment and contingency plan - 10	GLB GLB GPT	COMMENTS
number, corresponding treatment standards, manifest number, and waste analysis data - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(a) 5. Waste analysis plan on-site and utilized if generator treats hazardous waste in tanks or containers to meet LDR treatment standards - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(a)(4) 1. PERSONNEL TRAINING 1. Personnel are trained to respond to emergencies including the use	GLB GLB GPT	COMMENTS
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number, corresponding treatment standards, manifest number, and waste analysis data - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(a) Waste analysis plan on-site and utilized if generator treats hazardous waste in tanks or containers to meet LDR treatment standards - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(a)(4) I. PERSONNEL TRAINING 1. Personnel are trained to respond to emergencies including the use of alarm systems, emergency equipment and contingency plan - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.16(a)(3).	GLB	COMMENTS
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number, corresponding treatment standards, manifest number, and waste analysis data - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(a) 5. Waste analysis plan on-site and utilized if generator treats hazardous waste in tanks or containers to meet LDR treatment standards - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(a)(4) 1. PERSONNEL TRAINING 1. Personnel are trained to respond to emergencies including the use of alarm systems, emergency equipment and contingency plan - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.16(a)(3). 2. Employees do not work in unsupervised positions until they have completed the training - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.16(b) 3. Training reviewed annually - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.16(c) 4. Program director trained in hazardous waste management procedures - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing	GLB GLB GPT GPT	COMMENTS
number, corresponding treatment standards, manifest number, and waste analysis data - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(a) Maste analysis plan on-site and utilized if generator treats hazardous waste in tanks or containers to meet LDR treatment standards - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(a)(4) PERSONNEL TRAINING Personnel are trained to respond to emergencies including the use of alarm systems, emergency equipment and contingency plan - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.16(a)(3). Employees do not work in unsupervised positions until they have completed the training - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.16(b) Training reviewed annually - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.16(c) Program director trained in hazardous waste management procedures	GLB GLB GPT GPT GPT	comments comments employees will be framed prior to working unsupervised " & annual

<u></u>	Gives job title, job description and name of employee filling each	<u> </u>	COMMENTS
	position - 10 CSR 25-5 262(1) incorporating 40 CFR 262 34(a)(4)	GPT	
0	Written description of introductory and continuing training that will be given to each position - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.16(d)(3)	GPT	need to elaborate /expand
8. 2	Documentation of training completed by personnel - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.16(d)(4)	GPT	
9	Records of current personnel maintained until facility closure, former employee records maintained for at least three years - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.16(e)	GPT	
	NTINGENCY PLAN		•
	Contingency plan maintained on-site - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.53(a).	GPT	COMMENTS
2.	Plan submitted to local emergency response agencies - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.53(b)	GPT	
	Emergency coordinator on-site or on call - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.55	GPT	Dhone rumbers
4.	Plan describes actions personnel must take in response to fires, explosions or other releases of hazardous waste - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.52(a)		1000 notifications and,
5.	Describes arrangements with emergency response agencies - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.52(c)	t .	phone rumbers 1989 notifications and arrangements - w/ changes in fact 1. Ty may with to kenotify
6.	Lists names, addresses and phone numbers (home and office) of emergency coordinators - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.52(d)		wish to Renotity
7.	Primary emergency coordinator designated - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.52(d)	GPT	
8. 🔎	List emergency equipment including description, location and capabilities - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.52(e)		
	Evacuation plan, if applicable, designates primary and secondary routes and evacuation signal - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.52(f)		
J. WA	STE OIL	7 .20	
	Waste oil is managed properly and not disposed of into the environment - 10 CSR 25-11.010(1)(D).	, ·	COMMENTS
· •	Listed hazardous waste mixed with waste oil is handled as a hazardous waste - 10 CSR 25-11.010(1)(C)2.	GOR	
	Registered as waste oil generator if gen./accum. 220 lb 10 CSR 25-11.010(2)(A)	GOR	Southwest 0-1
4.	Written waste oil contract maintained - 10 CSR 25-11.010(4)(C)	GOR	Southwe
5	Uses a licensed transorter and receiving facility - 10 CSR 25-11.010(4)	GOR	
K. RE	SOURCE RECOVERY		
	AR certification for energy recovery or reclamation of waste oil or hazardous waste on-site - 10 CSR 25-9.020(1)(A)3.	GOR	COMMENTS
2.	Still bottoms or RR residues disposed of properly - Section 260.380.1(5) RSMo.	40	· -
3.	Facility is classified as U, R1 or R2 accurately - 10 CSR 25-9.020(3)(A).	GOR	
4.	Facility meets the operating conditions of certification - 10 CSR 25-9.020(30)(E)3.	GOR	
5.	Facility has submitted a written request and received approval from the DNR for all changes in operation including closure - 10 CSR 25-9.020(3)(E) 1. and 2.		
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6. Facility report submitted to DNR quarterly - 10 CSR 25-9.020(3)(E)6. referencing 10 CSR 25-7.264(2)(E)3.	GOR	COMMENTS
7. Facility maintains a written operating record - 10 CSR 25-9.020(3)(E)5. referencing 40 CFR 264.73(b)(1) & (2) as modified by 10 CSR 25-7.264(2)(E)2.	GOR	WA
8. Facility has notified EPA and the state that it qualifies for a small quantity on-site burner exemption or has interim status or a permit if it burns hazardous waste on-site - 10 CSR 25-7.266(1) incorporating 40 CFR 266.108 and 40 CFR 266.103.		
9. R2 (acility uses an adequate sampling and analysis plan to assess incoming shipments - 10 CSR 25-9.020(3)(C)1.	GOR	
10. R2 facility maintains a daily log of manifest number, wastes received, disposition of waste and corresponding sampling days - 10 CSR 25-9.020(3)(C)2.		
11.	GOR	
12.	GOR	
CHECKLIST KEY		
Check the 🗹 if in compliance.		
Circle the if not in compliance and provide comment.	*	
N/A = Not Applicable		
A shaded item is a serious deviation from the requirements (Class I v	iolatic	on)
An unshaded item is a significant deviation from the requirements (C	la s s I	I violation unless conditions warrant Class I)
COMMENTS: INCLUDE DISCUSSION OF FACILITY'S WASTE MINIMIZATION PL	.AN	
•		•
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INSPECTOR SIGNATURE		DATE
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